

## Refine Search

---

### Search Results -

Terms	Documents
L9 and (sort\$3 with attribut\$3)	0

---

**Database:**

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

**Search:**

A  
B  
C  
D  
E  
F

Refine Search

Recall Text

Clear

Interrupt

---

### Search History

---

**DATE:** Friday, October 28, 2005    [Printable Copy](#)    [Create Case](#)

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
			result set
<i>DB=DWPI; PLUR=YES; OP=OR</i>			
<u>L10</u>	L9 and (sort\$3 with attribut\$3)	0	<u>L10</u>
<u>L9</u>	rule with induct\$3	45	<u>L9</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L8</u>	L7 and dimension\$2	11	<u>L8</u>
<u>L7</u>	L5 and cost\$3	11	<u>L7</u>
<u>L6</u>	L5 and cost\$3	1	<u>L6</u>
<u>L5</u>	I3 and (patient same record\$3)	22	<u>L5</u>
<u>L4</u>	I3 and (patient same record\$3)	22	<u>L4</u>
<u>L3</u>	L2 and (sort\$3 with attribut\$3)	41	<u>L3</u>
<u>L2</u>	rule with induct\$3	1046	<u>L2</u>
<u>L1</u>	rule with induct\$3	1046	<u>L1</u>

END OF SEARCH HISTORY

## Refine Search

---

### Search Results -

Terms	Documents
rule with induct\$3	45

---

**Database:**

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

**Search:**

L9 and (sort\$3 with attribut\$3)






---

### Search History

---

**DATE: Friday, October 28, 2005** [Printable Copy](#) [Create Case](#)

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
<i>DB=DWPI; PLUR=YES; OP=OR</i>			
<u>L9</u>	rule with induct\$3	45	<u>L9</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L8</u>	L7 and dimension\$2	11	<u>L8</u>
<u>L7</u>	L5 and cost\$3	11	<u>L7</u>
<u>L6</u>	L5 and cost\$3	1	<u>L6</u>
<u>L5</u>	I3 and (patient same record\$3)	22	<u>L5</u>
<u>L4</u>	I3 and (patient same record\$3)	22	<u>L4</u>
<u>L3</u>	L2 and (sort\$3 with attribut\$3)	41	<u>L3</u>
<u>L2</u>	rule with induct\$3	1046	<u>L2</u>
<u>L1</u>	rule with induct\$3	1046	<u>L1</u>

**END OF SEARCH HISTORY**

[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#)

Welcome United States Patent and Trademark Office

**Search Results**[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#) [e-mail](#)

Results for "(( rule induction )&lt;in&gt;metadata) and patient and sort"

Your search matched 3 of 1250969 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by **Relevance** in **Descending** order.[» Search Options](#)[View Session History](#)[Modify Search](#)[New Search](#) [»](#) Check to search only within this results setDisplay Format:  Citation  Citation & Abstract[» Key](#)

Select Article Information

**IEEE JNL** IEEE Journal or Magazine**IEE JNL** IEE Journal or Magazine**IEEE CNF** IEEE Conference Proceeding**IEE CNF** IEE Conference Proceeding**IEEE STO** IEEE Standard

1. **Gait event detection for FES using accelerometers and supervised machine learning**  
Williamson, R.; Andrews, B.J.;  
Rehabilitation Engineering, IEEE Transactions on [see also IEEE Trans. on Neural Networks and Learning Systems. Rehabilitation Engineering and Assistive Technology, IEEE Transactions on]  
Volume 8, Issue 3, Sept. 2000 Page(s):312 - 319  
Digital Object Identifier 10.1109/86.867873  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(260 KB\)](#) IEEE JNL.
2. **Medical diagnosis with C4.5 rule preceded by artificial neural network ensemble**  
Zhi-Hua Zhou; Yuan Jiang;  
Information Technology in Biomedicine, IEEE Transactions on  
Volume 7, Issue 1, March 2003 Page(s):37 - 42  
Digital Object Identifier 10.1109/TITB.2003.808498  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(265 KB\)](#) IEEE JNL.
3. **A constraint-based genetic algorithm approach for mining classification rules**  
Chaochang Chiu; Hsu, P.-L.;  
Systems, Man and Cybernetics, Part C, IEEE Transactions on  
Volume 35, Issue 2, May 2005 Page(s):205 - 220  
Digital Object Identifier 10.1109/TSMCC.2004.841919  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(2544 KB\)](#) IEEE JNL.

[Help](#) [Contact Us](#) [Privacy & Terms](#)

© Copyright 2005 IEEE - All rights reserved

Indexed by  
**Inspec**


[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [AIE](#)

Welcome United States Patent and Trademark Office

**AbstractPlus**
[View Search Results](#) | [Previous Article](#) | [Next Article](#) »
**BROWSE****SEARCH****IEEE XPLORE GUIDE**
**Access this document**
 Full Text: [PDF](#) (236 KB)
**Download this citation**
 Choose [Citation](#)

 Download [EndNote, ProCite, RefMan](#)

 » [Learn More](#)
**Rights & Permissions**
 » [Learn More](#)
**Induction by attribute elimination****Xindong Wu Urpani, D.**

Dept. of Math. &amp; Comput. Sci., Colorado Sch. of Mines, Golden, CO, USA;

This paper appears in: **Knowledge and Data Engineering, IEEE Transactions on**  
Publication Date: Sept.-Oct. 1999

Volume: 11 , Issue: 5

On page(s): 805 - 812

ISSN: 1041-4347

CODEN: ITKEEH

INSPEC Accession Number:6437393

Digital Object Identifier: 10.1109/69.806938

Posted online: 2002-08-06 22:45:50.0

**Abstract**

In most data mining applications where induction is used as the primary tool for knowledge world databases, it is difficult to precisely identify a complete set of relevant attributes. The novel rule induction algorithm called Rule Induction Two In One (RITIO), which eliminates order of decreasing irrelevancy. Like ID3-like decision tree construction algorithms, RITIO uses entropy measure as a means of constraining the hypothesis search space; but, unlike ID3, its hypotheses language is the rule structure and RITIO generates rules without constructing final concept description produced by RITIO is shown to be largely based on only the most relevant attributes. Experimental results confirm that, even on noisy, industrial databases, RITIO achieves high accuracy.

**Index Terms****Inspec****Controlled Indexing**[data mining](#) [entropy](#) [inference mechanisms](#) [search problems](#)**Non-controlled Indexing**

[ID3-like decision tree construction algorithms](#) [RITIO](#) [Rule Induction Two In One](#) [elimination](#) [concept description](#) [data mining applications](#) [entropy measure](#) [hypotheses language](#) [hypothesis search space](#) [industrial databases](#) [knowledge extraction](#) [accuracy](#) [real world databases](#) [relevant attributes](#) [rule induction algorithm](#)

**Author Keywords**

Not Available

**References**

- 1 K.M. Ali and M.J. Pazzani, "Reducing the Small Disjuncts Problem by Learning Probabilistic Descriptions," *Computational Learning Theory and Natural Learning Systems*, T. Petschelt, Ed., Springer-Verlag, Berlin, Germany, 1992.  
[\[Buy Via Ask@IEEE\]](#)
- 2 P.E. Clark and R. Boswell, "Rule Induction with CN2: Some Recent Improvements," *Fifth Working Session on Learning*, pp. 151-163. Porto, Portugal: Springer-Verlag, 1991.  
[\[Buy Via Ask@IEEE\]](#)
- 3 J. Dougherty, R. Kohavi and M. Sahami, "Supervised and Unsupervised Discretization Features," *Proc. 12th Int'l Conf. Machine Learning*, pp. 194-202, 1995.  
[\[Buy Via Ask@IEEE\]](#)

- 4 M. Gams, M. Drobnič and M. Petkovsek, "Learning from Examples—A Uniform View, *Studies*, vol. 34, pp. 49–68, 1991.  
[Buy Via Ask\*IEEE]
- 5 J. Hong, "AE1: An Extension Matrix Approximate Method for the General Covering Problem," *Computer and Information Sciences*, vol. 14, no. 6, pp. 421–437, 1985.  
[Buy Via Ask\*IEEE]
- 6 R.S. Michalski, I. Mozetic, J. Hong and N. Lavrac, "The Multi-Purpose Incremental Learning System and Its Testing Application to Three Medical Domains," *Proc. Fifth Nat'l Conf. Artificial Intelligence*, pp. 1,041–1,045, 1986.  
[Buy Via Ask\*IEEE]
- 7 R.S. Michalski, "Variable-Valued Logic and Its Applications to Pattern Recognition and Machine Learning," in *Computer Science and Multiple-Valued Logic Theory and Applications*, D.C. Rine, ed. Amsterdam: North-Holland, 1975.  
[Buy Via Ask\*IEEE]
- 8 P.M. Murphy and D.W. Aha, "UCI Repository of Machine Learning Databases, Machine Learning Repository," Dept. of Information and Computer Science, Univ. of California, Irvine, CA, 1994.  
[Buy Via Ask\*IEEE]
- 9 T. Niblett and I. Bratko, "Learning Decision Rules in Noisy Domains," *Research and Practice in Knowledge Discovery Systems*, M.A. Kramer, ed., vol. 3, pp. 25–34, Cambridge Univ. Press, 1987.  
[Buy Via Ask\*IEEE]
- 10 G. Pagallo and D. Haussler, "Boolean Feature Discovery in Empirical Learning," *Machine Learning*, vol. 9, pp. 1–29, 1999, vol. 5, 1990.  
[Buy Via Ask\*IEEE] [CrossRef]
- 11 J.R. Quinlan, "Induction of Decision Trees," *Machine Learning*, vol. 1, 1986.  
[Buy Via Ask\*IEEE] [CrossRef]
- 12 J.R. Quinlan, *C4. 5: Programs for Machine Learning*. Morgan Kaufmann, 1993.  
[Buy Via Ask\*IEEE]
- 13 C.E. Shannon and W. Weaver, *Math. Theory of Comm.*, Univ. of Illinois Press, Urbana, IL, 1949.  
[Buy Via Ask\*IEEE]
- 14 P.E. Utgoff, "Shift of Bias for Inductive Concept Learning," *Machine Learning: An AI Approach*, vol. 148; vol. 2, chapter 5, Morgan Kaufmann, 1986.  
[Buy Via Ask\*IEEE]
- 15 X. Wu, *Knowledge Acquisition from Databases*. Ablex, 1995.  
[Buy Via Ask\*IEEE]
- 16 X. Wu and P. Mähönen, "Fuzzy Interpretation of Induction Results," *Proc. 1995 Int'l Conf. Data Discovery and Data Mining (KDD-95)*, pp. 325–330, Montreal, Aug. 1995.  
[Buy Via Ask\*IEEE]
- 17 X. Wu, J. Krisár and P. Mähönen, "Noise Handling with Extension Matrices," *Int'l J. Artificial Intelligence Tools*, vol. 5, no. 1, pp. 81–97, 1996.  
[Buy Via Ask\*IEEE]

#### Citing Documents

No citing documents available on IEEEExplore.

[« View Search Results](#) | [« Previous Article](#) | [Next Article »](#)

[Help](#) [Contact Us](#) [Privacy](#)



© Copyright 2005 IEEE